Data Sheet

We make sure

FUJITSU COMPUTERS SIEMENS

ESPRIMO™ C Series Economy in Ultra Small Form Factor

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Pages 4

Economy

Sophisticated technologies for best in class economy.

Reduce cost of your professional PC by lowest energy consumption! Software and BIOS power management solutions reduce the overall average power consumption.

Further Total Cost of Ownership reductions are achieved through a comprehensive set of manageability features, sophisticated security solutions and a service friendly cabinet design.

For highest economy, ESPRIMO professional PCs are designed to increase your productivity and to decrease your cost.

Reliability

- Complete system development and manufacturing by Fujitsu Siemens Computers guarantees highest quality
- Platform stability and product continuity with managed lifecycle up to 18 month and chipset diversity

Environment

- Build with specially selected materials, the ESPRIMO Green PC brings economy and ecology in harmony
- From development to production, from transport to recycling –minimize the impact on the environment and limit the use of unrecoverable resources.

Ergonomics

- Sophisticated hardware design with optimized fans and air flow provides most silent system for an efficient working environment
- Best usability and complete quality – service friendly cabinet and easy access to all components

Customizing

- Tailor-made products to meet customer individual requirements
- Freedom of choice with systems which perfectly fit to specific customer

Manageability

- Reduce Total Cost of Ownership with a comprehensive set of system management features
- Easy and remote administration with DeskView client management

Security

- Access and data protection with sophisticated hardware and software components for secure systems
- Protect property – secure hardware and data and limit access with SmartCard Reader

Designed for Windows® XP
Windows Vista™ Capable

Windows Vista™ Premium Ready

	C5900	C5910
Mainboard		
Chipset	i915GV	iQ963
Mainboard Number	D1784	D2364
Mainboard form factor	prorietary	prorietary
Processor socket	LGA 775	LGA 775
Front side bus resp. system bus support	533/800 MHz	533/800/1066MHz
BIOS version	Phoenix Vers.5.0	Phoenix Vers. 6.0
Flash EPROM BIOS update by software	x	x
Recovery BIOS	x	x
Processor		
Intel® Core™ 2 Duo	-	up to E6600
Second level cache	-	4MB
Front side bus (FSB)	-	1066MHz
Intel® Pentium® D9xx	-	up to D945
Second level cache	-	2x2MB
Front side bus (FSB)	-	800MHz
Intel® Pentium® D8xx	-	up to D820
Second level cache	-	2x1MB
Front side bus (FSB)	-	-
Intel® P4 6xx	up to 650	-
Second level cache	2MB	-
Front side bus (FSB)	800 MHz	-
Intel® P4 5xx	541	541
Second level cache	1MB	1MB
Front side bus (FSB)	800 MHz	800MHz
Intel® Celeron D	up to D351	up to D356
Second level cache	256 KB	512 KB
Front side bus (FSB)	533 MHz	533 MHz
Athlon™ 64 X2 (socket)	-	-
Second level cache	-	-
System Bus support	-	-
Athlon™ 64 X2 Energy efficient (socket)	-	-
Second level cache	-	-
System Bus support	-	-
AMD Athlon™ 64 (socket)	-	-
Second level cache	-	-
System Bus support	-	-
AMD Sempron™ (socket)	-	-
Second level cache	-	-
System Bus support	-	-
AMD Sempron™ Energy efficient (socket)	-	-
Second level cache	-	-
System Bus support	-	-
Memory		
Memory support	533MHz	533/667MHz
DIMM slots	4	4
dual channel support	x	x
Max. capacity DDR SDRAM 400 MHz	-	-
Max. capacity DDR2 SDRAM 533 MHz	4GB	-
Max. capacity DDR2 SDRAM 667 MHz	-	4GB
for dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to be the same	4GB address space thereof, max. 3.0GB usable for physical main memory	8GB address space (with future memory modules). Fully useable.
Interfaces		
Mouse/keyboard (PS2)	x/x	-/-
Serial (9pi, 16 byte FIFO, 16550 compatible)	x	x
Second serial port	x	x
Parallel (25pin with EPP and ECP)	x	-
Display (15 pin, VGA)	x	x
DVI adapter	optional via Riser	-
DVI adapter incl. Dual Monitoring (DVI/VGA)	-	optional via Riser
Dual-DVI adapter incl. Dual Monitoring (DVI/DVI)	-	-
Micro (mono) rear	-	-
Line in (stereo) rear	x	x
Line out (stereo) rear	x	x
Micro (mono) front	x	x
Headphone in front	x	x
LAN RJ45	x	x
Universal Serial Bus (USB 2.0) in total	8	10
therefore USB rear	4	6
USB front	3	3
USB internal	1	1
Interfaces add on cards		
Dual port RS232 , serial	optional	optional
LAN on board		
10/100/1000 MBit/s	Broadcom BCM5751T	Broadcom BCM5755
Wake up on LAN (WOL)	x	x
PXE	x	x
BootP	optional	tested
LAN add on cards		
Gigabit Ethernet, SysKonnect	optional	optional
Audio on board		
Internal speaker supports audio playback	x	x
AC97	AD1986	-
High definition audio	-	Realtek ALC 260
I/O controller onboard		

Fast IDE/Ultra DMA-100 bus master capability	for 2 drives	-
Serial ATA	2	2
Serial ATA II / 3GBit	-	x/x
Raid 1/0	-	-
Drive bays	2	2
internal 3,5"	1	1
external 3,5"	-	-
external 5,25"	1 slim	1 slim
Floppy disk drive 1.44 MB standard	-	-
Hard disk drives		
Serial ATA II 40 /80 / 160 / 250 GB	x/x/x/x	x/x/x/x
supporting NCQ and 3GBit (if chipset support is available)		
Optical drives (IDE)		
48-speed ATAPI CD ROM	-	-
16/48-speed ATAPI DVD ROM	-	-
48/24/48/16-speed ATAPI CD-RW / DVD ROM	-	-
DVD SuperMulti writer double layer support	-	-
24/10/24/8-speed ATAPI CD RW / DVD ROM slim	optional	optional
DVD+/-RW writer slim	-	optional
Multibay 24/10/24/8 CD RW / DVD ROM slim	optional	-
Multibay DVD writer	optional	-
Optical drives (SATA)		
16/48-speed DVD ROM	-	-
48/24/48/16-speed CD-RW / DVD ROM	-	-
DVD SuperMulti writer double layer support	-	-
Slots	optional	optional
PCI	1 (174 mm) optional via Riser	1 (174 mm) optional via Riser
PCI Express x16	-	-
PCI Express x1	-	-
Graphic on board	Intel® GMA900	Intel® GMA 3000
Shared memory depending on driver	up to 128MB	up to 256MB
Resolution (color depth up to 32 Bit/pixel)		
1024 x 768 (recommended / max*)	85 / 120 Hz	85 / 120 Hz
1280 x 1024 (recommended / max*)	85 / 120 Hz	85 / 120 Hz
1600 x 1200 (recommended / max*)	85	85 / 100 Hz
1440 x 900 widescreen TFT (VGA / DVI)	- / x	x / x
1680 x 1050 widescreen TFT (VGA / DVI)	x / x	x / x
1920 x 1200 widescreen TFT (VGA / DVI)	x / x	x / x
* refresh rates reflect the max. graphics capabilities. Video quality can be deteriorated when using maximum settings. For TFT we recommend to use 60Hz.		
Graphic add on cards		
NVIDIA GeForce FX 6200TC 128MB, dual DVI/VGA	-	-
NVIDIAGeForce FX 7300LE 128MB, LP	-	-
NVIDIAGeForce FX 7300LE 256MB, LP	-	-
NVIDIAGeForce FX 7300LE 128MB	-	-
NVIDIAGeForce FX 7300LE 256MB	-	-
DVI extension adapter	DVI via Riser optional	DVI via Riser optional
Electrical values		
Rated voltage range, AC	100 - 240 V	100 - 240 V
Rated frequency range	50-60 Hz	50-60 Hz
Operating voltage range, AC	90 - 264 V	90 - 264 V
Operating line frequency range	47 - 63 Hz	47 - 63 Hz
Max. output of power supply	240 W	240 W
Monitor outlet	-	-
Power consumption for standard configuration (W) / CPU	P4 3,4GHz	P4 541 / E6400
Peak (running app. CD in use)	172 W	TBD
Average (running OS, Idle mode)	76 W	TBD
Minimum (ACPI status S5, soft off, WOL enabled)	1,4 W	TBD
Minimum (ACPI status S5, soft off, wake up power button only)	-	-
Minimum **"low power soft off"** (FSC patent pending) (ACPI S5, soft off, wake up power button only)	-	TBD
Heat dissipation (kJ/h / BTU/h) / CPU	P4 3,4GHz	P4 541 / E6400
Peak (running app. CD in use)	620 kJ/h / 587 BTU/h	TBD
Average (running OS, Idle mode)	274 kJ/h / 260 BTU/h	TBD
Minimum (ACPI status S5, soft off, WOL enabled)	5,1 kJ/h / 4,7 BTU/h	TBD
1W = 3,6kJ/h, 1W = 3,4121BTU/h		
Noise for standard configuration		P4 541 / E6400
A weighted sound power level Lwad / Workplace related A-weighted sound pressure level LpAm (bystander position) (ISO9296)		
LWAd in B / LpAm in dB (Idle mode)	3,6B / 21dB	TBD
LWAd in B / LpAm in dB (office work)	4,0B / 25dB	TBD
LWAd in B / LpAm in dB (Operating, HDD performance)	4,2B / 27dB	TBD
Ambient temperature (IEC 721)	15°C'- 35°C	15°C'- 35°C
Dimensions (H x W x D)	93 x 292 x 325 mm	93 x 292 x 325 mm
Operating position (vertical/horizontal)	x / x (feet included)	x / x (feet included)
Weight (depending on config)	approx. 7 kg	approx. 7 kg
Approvals and standards		
CE certification according to EU Directives 89/336/EEC (EMC) and 73/23/EEC (Product safety)	x	x
Ergonomics ISO9241 (GS mark)	x	x
Product safety	x	x

IEC60950, EN60950, UL 60950, CSA22.2, UL 60950, CSA22.2, No.60950		
Electromagn. compatibility	x	x
EN55022/B, FCC class B, EN55024, EN61000-3-2/3		
Environmental compatibility		
RoHS (Restriction of hazardous substances)	x	x
WEEE (Waste electrical and electronical equipment)	x	x
Energy Star	x	TBD
Blue Angel	x	TBD
Nordic Swan	x	TBD
Software (compatibility / preinstalled)		
Microsoft Windows 2000	x / -	x / -
Microsoft Windows XP Home	x / optional	x / optional
Microsoft Windows XP Professional	x / optional	x / optional
Microsoft Windows XP Professional x64 Edition	- /'-	x / optional
Microsoft Windows Vista™ capable (min. 512MB RAM necessary)	x	x
Microsoft Windows Vista™ Premium Ready (min. 1GB RAM / DVD reader necessary)	-	x
Linux certified	-	planned
Additional Software		
Drivers and Utility DVD (DUDVD)	x	x
XONTROL (noise reduction for optical drives)	x	x
SafeStandby	x	x
Altiris Local Recovery Pro	-	x
Recover Pro disaster recovery solution	optional	-
Others		
Thermal Management	x	x
Keyboard on (Fujitsu Siemens Computers keyboard required)	x	x
Spare part availability	5 years	5 years
Compatibility (references)		
Microsoft Operating Systems (HCT / HCL entry)	x	x
PC 2001, DMI 2.0, WMI 1.5, USB 2.0, Hyper-Threading	x	x
Manageability		
DeskView 10.x client management including:		
On/Offline remote client management	x	x
Detailed system inventory management and reports	x	x
BIOS Management	x	x
Remote power management	x	x
System notifications	x	x
Advanced alerts (ASF implementation)	x	x
Security Remote Control	x	x
DeskView Helpdesk Integration	x	x
DeskUpdate Driver management	x	x
DeskView Migrate	optional	optional
DeskView Control	optional	optional
PXE 2.1 Boot code	x	x
BootP Boot Code including Bootmanage Administrator Software	optional	tested
Wake up from S5 (off mode)	x	x
Intrusion switch	optional	optional
Security		
Physical Security implemented in the cabinet		
Prepared for Kensington lock, eye for padlock, seal option	x	x
Integrated cabinet lock	optional	optional
System Security		
Boot sector virus protection	x	x
Write protect option for the Flash EPROM	x	x
Embedded security (TPM1.1)	optional	-
Embedded security (TPM1.2)	x	x
Norton Internet Security (NIC)	x	x
Control of all USB interfaces / external USB interfaces detachable separately	x / -	- / -
Boot protection for floppy disk/CD drive and write protection for floppy disk drive	x	x
Control of external interfaces	x	x
User Security		
User and supervisor BIOS password	x	x
SystemLock BIOS SmartCard Security	x	-
SystemLock 2 BIOS SmartCard Security	-	x
Hard disk password	x	x
Access protection via external SmartCard reader	optional	optional
Access protection via internal SmartCard reader	optional	optional
Fujitsu Siemens Computers MEMORYBIRD BIOS lock	x	x
Serviceability		
FlexySlot	x	x
EasyFix	x	x
EasyChange (for HDD / for optical drives)	x /'-	x /'-
EasyPull	x	x

**) Not all Windows Vista™ features are available for use on all Windows Vista Capable PCs. All Windows Vista Capable PCs will run the core experiences of Windows Vista, such as innovations in organizing and finding information, security, and reliability. Some features available in premium editions of Windows Vista -- like the new Windows® Aero™ user interface -- require advanced or additional hardware. Check www.windowsvista.com/getready for details.*

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